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## Patent Abstracts of Japan

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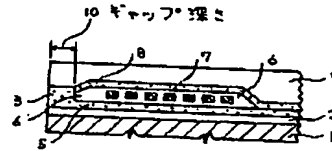
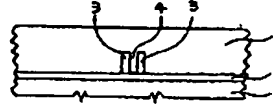
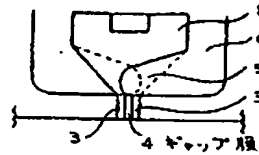
APPLICATION DATE : 21-02-86  
APPLICATION NUMBER : 61036780

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TITLE : PRODUCTION OF MAGNETIC HEAD



ABSTRACT : PURPOSE: To improve the depth accuracy of a gap by forming the gap parts of magnetic poles consisting of magnetic films to the shape which is in the direction perpendicular to a substrate.

CONSTITUTION: An underlying protective film 2 is formed on the substrate 1 consisting of a magnetic or nonmagnetic material by using a thin film forming technique such as sputtering or vapor deposition. Top ends 3 of a thin film magnetic head are simultaneously formed on the right and left of the substrate 1 in the direction perpendicular to the substrate 1. A cap film is formed only to the space part of the gap films 4 by using a photolithographic method, then a magnetic film 5, inter-layer insulating film 6, conductor coil 7, inter-layer insulating film 6, magnetic film 8, and protective film 9 are formed. A prescribed amt. is finally polished by machining from the top ends of the head, by which the thin film magnetic head controlled in the gap depth 10 is completed. Only the gap parts at the top ends of the magnetic film head are thus positioned on the right and left in the direction perpendicular to the substrate, by which a pair of the right and left gap parts at the top ends of the magnetic film head can be simultaneously formed. The variance in the gap depth between the head elements is thereby eliminated and the thin film head having the stable characteristics is obt'd.

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